



OrderPatent

BEST AVAILABLE COPY



(19)

JAPANESE PATENT OFFICE

PATENT ABSTRACTS OF JAPAN

(11) Publication number: 073

(43) Date of publication of application: 28

(51) Int. Cl. G01B 11/00

(21) Application number: 06105543

(22) Date of filing: 19.05.1994

(71) Applicant: HITACHI MAXELL LTD

(72) Inventor: WATANABE YUTAKA,
SUGIYAMA TOSHINORI

(54) MEASURING DEVICE USING LASER

(57) Abstract:

PURPOSE: To provide the measuring device using laser, which is excellent in safety, less in electric power consumption, and can make its life longer without lowering measurement efficiency.

CONSTITUTION: Desired measurement is performed as follows: a laser beam radiated from a semiconductor laser 1 is radiated on a measured object 6, and its reflected beam from the measured object is detected by a beam detector 8. A laser drive circuit 2 is equipped with a first current drive circuit 11 supplying the semiconductor laser with drive current I_1 , a second current drive circuit 12 applying drive current ΔT to the

output terminal of the first current drive circuit 11, a first switch 14, a first auto power controller (APC) 13, a first switch 15 provided for the APC, a second switch 15 provided for the output terminal of the second current drive circuit 12, and with a comparator 16 making switch-on these first and second switches 14 and 15.

COPYRIGHT: (C)1995,JPO

